



FAA-E-237L  
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## DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION SPECIFICATION

SPEAKER, ADJUSTABLE, ENCLOSED, FIVE-INCH

### 1. SCOPE

1.1 Scope.- The equipment described herein is a permanent magnet speaker with impedance matching transformer enclosed in a speaker housing. The speaker will be used on A/G voice circuits at communication facilities.

### 2. APPLICABLE DOCUMENTS

2.1 Military specification.- The following Military specifications, of the issues in effect on date of the invitation for bids or request for proposals, form a part of this specification:

MLL-E-17555 Electronic and Electrical Equipment and Associated Repair Parts, Preparation for Delivery of

2.2 Federal Standard.- The following Federal Standard forms a part of this specification:

Fed. Std. 595 Colors (Color No. 30372 only)

(Information on obtaining copies of Federal Standards may be obtained from the General Services Administration Offices in Washington, D. C.; Auburn, Washington; San Francisco; Denver; Kansas City, Missouri; Chicago; Atlanta; New York; Boston; Fort Worth; New Orleans; and Los Angeles.)

(Copies of this FAA specification may be obtained from the Federal Aviation Administration, Washington, D. C. 20590, Attention: Contracting Officer. Requests should fully identify material desired, i.e., specification numbers, dates, amendment numbers; also request should state the contract involved or other use to be made of the requested material.)

(Single copies of the applicable Military specifications may be obtained from the Federal Aviation Administration, Washington, D. C. 20590, Attention: Contracting Officer. Requests should fully identify material desired, i.e., specification numbers, dates, amendment numbers; also requests should state the contract involved or other use to be made of the requested material. Note that requests for MLL specifications will be forwarded to Military supply depot for filling, hence ample time should be allowed.)

### 3. REQUIREMENTS

3.1 Equipment to be furnished by the contractor.- Each speaker furnished by the contractor shall be complete in accordance with all specification requirements.

#### 3.2 Mechanical characteristics

3.2.1 Enclosure.- The speaker enclosure shall be a streamlined metal case mounted on a base that shall provide an adjustable means to vertically tilt the speaker through a minimum angle of 45°. The base shall be sufficiently heavy to allow free standing of the speaker throughout the vertical tilt when sitting on a horizontal flat surface. The resting surface of the base shall be padded.

3.2.2 Speaker protection.- The speaker case shall be provided with a removable perforated metal grill, including dust proofing, that attaches to the case with screws. Three mounting holes for No. 6 machine screws shall be drilled through the base near the periphery for attaching to flat surfaces. A grommet-equipped wiring entrance shall be provided in the underside near the back of the case.

3.2.3 Dimensions.- The dimensions when setting (not tilted) on a flat surface shall be in accordance with Figure 1.

3.2.4 Finish.- All exterior metal surface shall have a durable matte texture finish matching color No. 30372 of Federal Standard 595. Screw heads may be plated in lieu of painting.

3.2.5 Marking.- The outside case shall be durably marked with the manufacturer's name and type number. The marking shall be small, legible, and inconspicuously placed near the back of the case.

#### 3.3 Electrical characteristics

- 3.3.1 Speaker power rating.- The rated power handling capacity with normal speech input shall be five watts minimum.
- 3.3.2 Frequency range.- Good speech performance shall be provided throughout the frequency range 300 to 3000 Hz.
- 3.3.3 Impedance.- The speaker coil impedance shall be 3 to 4 ohms.
- 3.3.4 Speaker design.- The speaker shall be the permanent magnet type, using alnico five material.
- 3.3.5 Matching transformer.- The speaker shall include a matching transformer for matching nominal 600 ohm input circuits to the voice coil 3.3.3. The transformer shall be mounted inside the speaker case and provide a means for connecting the input circuits.
- 3.3.6 Speaker size.- The speaker size shall be five inches.

#### 4. QUALITY ASSURANCE PROVISIONS

- 4.1 Inspection.- The contractor shall inspect each speaker for compliance with the requirements of this specification and shall provide the Government with written certification that each unit fully meets all the technical requirements of the contract, dated and signed by a responsible official of the contractor. The Government reserves the right to inspect and test the speakers at the point of delivery.

#### 5. PREPARATION FOR DELIVERY

- 5.1 General.- See MIL-E-17555.

#### 6. NOTES

- 6.1 None.

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For Figure 1, see page 4.

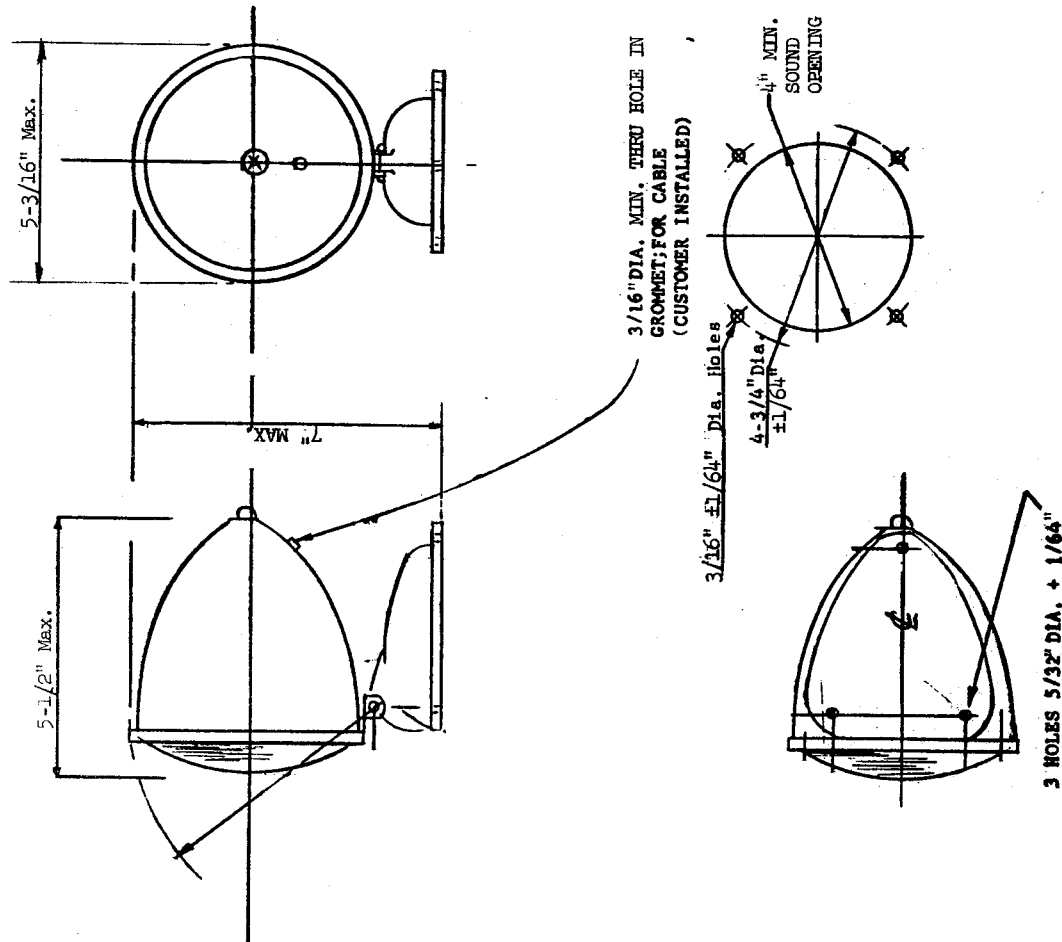


FIGURE 1